

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,168	11/20/2006	Nico Erasmus	183-14	9991
24336 7590 03/11/2010 TUTUNJIAN + BITETTO, P.C. 20 CROSSWAYS PARK NORTH			EXAMINER	
			SINGH, SUNIL	
SUITE 210 WOODBURY, NY 11797			ART UNIT	PAPER NUMBER
			3672	
			WATE TAKE	DET WEDVILLORE
			MAIL DATE 03/11/2010	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/534 168 ERASMUS ET AL. Office Action Summary Examiner Art Unit Sunil Sinah 3672 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 March 2010. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 2.4.5.8.11.13.14 and 16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 2,4,5,8,11,13,14,16 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/06)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/534,168 Page 2

Art Unit: 3672

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. Claims 16,2,4,5,8,11,13,14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 16 calls for the second end to be engaged with the other of the hanging wall and the foot wall, "optionally by means of a pre-stressing device".

 However, the disclosure never enabled one to have the second end engage the other of the hanging wall and the foot wall without a pre-stressing device. Therefore, the pre-stressing device is not optional.
- 2. Claims 16,2,4,5,8,11,13,14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The originally filed disclosure has no basis for the second end to be engaged with the other of the hanging wall and the foot wall, "optionally by means of a pre-stressing device". The disclosure never provided basis for one to have the second end engage the other of the hanging wall and the foot wall without a pre-stressing device. Therefore, the pre-stressing device is not optional as such limitation constitutes new matter.

Application/Control Number: 10/534,168 Page 3

Art Unit: 3672

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 16,2,4,5,8,11,13,14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 16 is confusing because claim 16 calls for the second end to be engaged with the other of the hanging wall and the foot wall, "optionally by means of a prestressing device". However, the disclosure does not particularly point out how one can have the second end engage the other of the hanging wall and the foot wall without a pre-stressing device. Therefore, the pre-stressing device is not optional.

Claim 16 line 4, "a opposed end"; should be -an opposed end--.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 2,4,5,8,11,13,14,16 are rejected under 35 U.S.C. 103(a) as being unpatentable over German document (DE 2410976) in view of Hall (US 6558085).

Art Unit: 3672

German document discloses a mine support for use in an underground excavation with a hanging wall (12.14) and an opposed foot wall (12.14), the mine support comprising; a single deformable tubular sleeve with a circular cross section (18, see page 3, see marked up drawing below) made from a ductile metal, which has a first end and an opposed second end, the sleeve, in use, being positioned in the excavation with the first end directly engaged with one of the hanging wall and the foot wall and the second end engaged with the other of the hanging wall and the foot wall, optionally by means of a pre-stressing device(16,20,28,30, see marked up drawing below), a first material (26.31.see marked up drawing below) with a first strength characteristic inside a first interior portion of the sleeve and filling said first interior portion of the sleeve; and a second material (26.31, see marked up drawing below) with a second strength characteristic inside a remainder of the sleeve interior and filling said remainder of the sleeve interior; the first interior portion having a length, in an axial direction of the sleeve, which is greater than the length of the remainder of the sleeve interior in the axial direction of the sleeve and wherein, in use, one material only overlies the other material. German document discloses the invention substantially as claimed. However, German document is silent about the first and second material being differing cementitious material. Hall teaches first and second material being differing cementitious material (see abstract, col. 3 lines 10-20, col. 4 lines 1-20, see Figure 3). It would have been considered obvious to one of ordinary skill in the art to modify German document by substituting the first and second cementitious material as taught

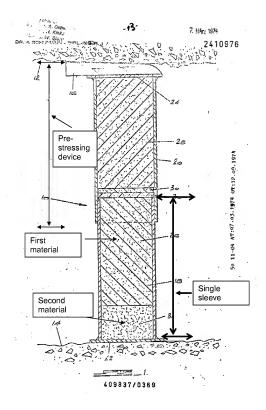
Art Unit: 3672

by Hall for the first and second material disclosed by German document since such a modification would yield predictable deformation.

With regards to claims 4,5, it would have been considered obvious to one of ordinary skill in the art to modify German document to have the length limitations as called for in claims 4,5 since such a modification yield predictable deformation.

With regards to claims 8,11 it would have been considered obvious to one of ordinary skill in the art to modify German document to have the density limitations as called for in claims 8,11 since such a modification yield predictable deformation.

With regards to claims 13,14, it would have been considered obvious to one of ordinary skill in the art to modify German document to have limitations as called for in claims 13,14, since such a modification yield predictable deformation.



Application/Control Number: 10/534,168 Page 7

Art Unit: 3672

Response to Arguments

7. Applicant's arguments filed 3/3/2010 have been fully considered but they are not persuasive. Applicant argues that German document fails to teach a single sleeve. The examiner disagrees. German document teaches a single sleeve (18, see drawing above). Applicant argues that German document fails to teach a single deformable tubular sleeve with a circular cross section made from a ductile metal. The examiner disagrees. German document teaches a single deformable tubular sleeve with a circular cross section made from a ductile metal (18, see page 3, see drawing above).

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunil Singh whose telephone number is (571) 272-7051.
 The examiner can normally be reached on Monday through Friday 10:30 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on (571) 272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3672

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sunil Singh/ Primary Examiner, Art Unit 3672 Sunil Singh Primary Examiner Art Unit 3672

SS

3/4/10